## IN THE CLAIMS:

Please amend Claim 1 as shown below. The claims, as pending in the subject application, read as follows:

1. (Currently Amended) A method of indexing a digital image comprising a plurality of blocks, comprising the following steps:

generating a first information item characteristic of the visual content of the image;

generating a second information item from the first information item, wherein the second information item is indicative of a degree of significance of the visual content of at least one of the plurality of blocks with respect to the overall content of the image and thereby characteristic of the spatial distribution of the visual content of the image in its image plane; and

associating, with the image, an index composed of the first information item and the second information item.

2. (Previously Presented) A digital image indexing method according to Claim 1, wherein said step of generating the first information item comprises the following substeps:

dividing the image plane of the image according to a partitioning comprising the plurality of blocks, the plurality of blocks comprising a predefined number N of blocks;

extracting, from each of the blocks, a data item of a first type representing at least one characteristic of the visual content of the block under consideration; and generating the first information item as being a vector having N components, each of which is one of the data items of the first type.

3. (Previously Presented) A digital image indexing method according to Claim 2, wherein said step of generating the second information item comprises the following substeps:

calculating, for each of the blocks, a data item of a second type indicative of a degree of significance of the visual content of the block under consideration with respect to the overall content of the image;

generating the second information item as being a vector having N components, each of which is one of the data items of the second type.

4. (Previously Presented) An image indexing method according to Claim 3, wherein, for each of the blocks, the data item of a second type, indicative of a degree of significance of the visual content of the block under consideration with respect to the overall content of the image, is obtained by applying the following formula:

$$w_i^{\operatorname{Im}} = \frac{\left\| h_i^{\operatorname{Im}} \right\|}{\sum_{i=1}^{N} \left\| h_i^{\operatorname{Im}} \right\|}$$

according to which the data item of the second type ( $w_i^{\text{Im}}$ ) is obtained by calculating the ratio between the Euclidean norm of the data item of the first type associated with the block under consideration and the sum of the Euclidean norms of the data items of the first type associated with all the blocks of the image.

- 5. (Previously Presented) An image indexing method according to any one of Claims 2 to 4, wherein the image plane of the image is divided according to a rectangular grid.
- 6. (Previously Presented) An image indexing method according to Claim 5, wherein the predefined number N of blocks is equal to sixteen.
- 7. (Previously Presented) A digital image indexing method according to Claim 2, wherein:

the image plane of the image is divided according to a quadtree decomposition process by means of which, at each phase of the decomposition, a block under consideration, referred to as the "parent block", is decomposed into four blocks, referred to as "child blocks", equal in size to a quarter the size of the parent block, and whose combination gives the parent block, the decomposition beginning with the overall image plane of the image and finishing when the predefined number N of blocks is reached;

at each phase of the decomposition, there is calculated, for each of the child blocks, a data item of a second type, indicative of a degree of significance of the visual content of the child block under consideration with respect to the overall visual content of the parent block; and

the second information item is composed of the set of the data items of the second type stored according to a quadtree structure, each node of which is constituted by one of the data items of the second type.

8. (Previously Presented) An image indexing method according to Claim 7, wherein:

at each phase of the quadtree decomposition of the image, there is extracted, from the parent block under consideration, a data item of the first type representing at least one characteristic of its visual content and, for each child block obtained by decomposition of the parent block, there is extracted a data item of the first type representing at least one characteristic of the visual content of the child block under consideration;

the data item of the second type indicative of a degree of significance of the visual content of a child block under consideration with respect to the overall visual content of the corresponding parent block is obtained by applying the following formula:

$$w_i^p = \frac{\left\| h_f^p \right\|}{\left\| h_p \right\|}$$

according to which the data item of the second type calculated for a child block under consideration is obtained by calculating the ratio between the Euclidean norm of the data item of the first type extracted for the said child block under consideration and the

Euclidean norm of the data item of the first type extracted from the corresponding parent block.

- 9. (Previously Presented) An image indexing method according to any one of Claims 2 to 4, wherein each of the data items of the first type, representing at least one characteristic of the visual content of a block under consideration of the image, represents the distribution of colours in the block.
- 10. (Previously Presented) A method of searching for images, from an example image, in a database in which digital images are stored, wherein the example image and each of the images stored in the database are indexed according to an image indexing method in accordance with Claim 1.
- 11. (Previously Presented) An image search method according to Claim 10, comprising the following steps:

calculating a first similarity between the example image and each of the images amongst a predefined plurality of stored images, the first similarity being calculated from the second information items associated respectively with the example image and the stored image under consideration;

providing a first subset of images selected from amongst the predefined plurality of images according to their degree of first similarity with the example image;

calculating a second similarity between the example image and each of the images amongst the first subset of selected images, the second similarity being calculated

from the first information items associated respectively with the example image and the selected image under consideration;

providing at least one image referred to as a result image, the at least one result image being selected from amongst the first subset of selected images, according to its degree of second similarity with the example image.

- 12. (Previously Presented) An image search method according to

  Claim 11, wherein said step of calculating a first similarity between the example image and
  each of the images amongst a predefined plurality of stored images is implemented by
  calculating a distance between the second information item associated with the example
  image and the second information item associated with the stored image under
  consideration.
- 13. (Previously Presented) An image search method according to Claim 11, wherein said step of calculating a first similarity between the example image and each of the images amongst a predefined plurality of stored images is implemented by an isomorphism detection method applied to quadtrees representing the second information items associated respectively with the example image and the stored image under consideration.
- 14. (Previously Presented) An image search method according to any one of Claims 11 to 13, wherein said step of calculating a second similarity between the example image and each of the images amongst the first subset of selected images is

implemented by calculating a distance between the first information item associated with the example image and the first information item associated with the stored image under consideration.

- 15. (Previously Presented) An image search method according to Claim 14, wherein said step of calculating the second similarity is implemented by calculating the sum of the distances between each of the components of the first information item associated with the example image and the corresponding component of the first information item associated with the stored image under consideration.
- 16. (Previously Presented) An image search method according to Claim 15, wherein each of the components of the first information items associated with the example image and with the stored image under consideration is a colour histogram and the sum of the distances between these components is the sum of the intersections between these components.
- 17. (Previously Presented) A digital data processing device, comprising means adapted to implement an image indexing method according to any one of Claims 1 to 4, 7 and 8.
- 18. (Previously Presented) A digital data processing device, comprising means adapted to implement an image search method according to any one of Claims 10 to 13.

- 19. (Canceled).
- 20. (Previously Presented) A computer, comprising a digital data processing device according to Claim 17.
- 21. (Previously Presented) A computer program comprising program instructions for causing a computer to perform an image indexing method according to any one of Claims 1 to 4, 7 and 8.
- 22. (Previously Presented) A computer readable medium having thereon a computer program comprising computer executable instructions for causing a computer to perform an image indexing method according to any one of Claims 1 to 4, 7 and 8.
- 23. (Previously Presented) A computer program comprising program instructions for causing a computer to perform an image search method according to any one of Claims 10 to 13.
- 24. (Previously Presented) A computer readable medium having thereon a computer program comprising computer executable instructions for causing a computer to perform an image search method according to any one of Claims 10 to 13.

25. (Previously Presented) A digital image indexing method according to Claim 12, wherein said step of generating the second information item comprises the following substeps:

calculating, for each of the blocks, a data item of a second type indicative of a degree of significance of the visual content of the block under consideration with respect to the overall content of the image;

generating the second information item as being a vector having N components, each of which is one of the data items of the second type.

26. (Previously Presented) An image indexing method according to Claim 25, wherein, for each of the blocks, the data item of a second type, indicative of a degree of significance of the visual content of the block under consideration with respect to the overall content of the image, is obtained by applying the following formula:

$$w_i^{\operatorname{Im}} = \frac{\left\|h_i^{\operatorname{Im}}\right\|}{\sum_{i=1}^{N} \left\|h_i^{\operatorname{Im}}\right\|}$$

according to which the data item of the second type is obtained by calculating the ratio between the Euclidean norm of the data item of the first type associated with the block under consideration and the sum of the Euclidean norms of the data items of the first type associated with all the blocks of the image.

- 27. (Previously Presented) An image indexing method according to Claim 12, wherein the image plane of the image is divided according to a rectangular grid.
- 28. (Previously Presented) An image indexing method according to Claim 27, wherein the predefined number N of blocks is equal to sixteen.
- 29. (Previously Presented) A digital image indexing method according to Claim 13, wherein:

the image plane of the image is divided according to a quadtree decomposition process by means of which, at each phase of the decomposition, a block under consideration, referred to as the "parent block", is decomposed into four blocks, referred to as "child blocks", equal in size to a quarter the size of the parent block, and whose combination gives the parent block, the decomposition beginning with the overall image plane of the image and finishing when the predefined number N of blocks is reached;

at each phase of the decomposition, there is calculated, for each of the child blocks, a data item of a second type, indicative of a degree of significance of the visual content of the child block under consideration with respect to the overall visual content of the parent block; and

the second information item is composed of the set of the data items of the second type stored according to a quadtree structure, each node of which is constituted by one of the data items of the second type.

30. (Previously Presented) An image indexing method according to Claim 29, wherein:

at each phase of the quadtree decomposition of the image, there is extracted, from the parent block under consideration, a data item of the first type representing at least one characteristic of its visual content and, for each child block obtained by decomposition of the parent block, there is extracted a data item of the first type representing at least one characteristic of the visual content of the child block under consideration;

the data item of the second type indicative of a degree of significance of the visual content of a child block under consideration with respect to the overall visual content of the corresponding parent block is obtained by applying the following formula:

$$w_i^p = \frac{\left\| h_f^p \right\|}{\left\| h_p \right\|}$$

according to which the data item of the second type calculated for a child block under consideration is obtained by calculating the ratio between the Euclidean norm of the data item of the first type extracted for the said child block under consideration and the Euclidean norm of the data item of the first type extracted from the corresponding parent block.

31. (Previously Presented) A computer, comprising a digital data processing device according to Claim 18.